

PREVENTING CORROSION

Fertilizers and other garden chemicals contain agents which greatly accelerate the corrosion of metals. If you mow in areas where fertilizers or chemicals have been used, the mower should be cleaned immediately afterward as follows: (1) Be sure the tool is unplugged. (2) Wipe all exposed parts with a damp cloth. **CAUTION: DO NOT POUR OR SPRAY WATER ON THE MOWER IN AN ATTEMPT TO CLEAN IT.** Do not store the tool on or adjacent to fertilizers or chemicals. Such storage can cause rapid corrosion.

ACCESSORIES

No. 80-310 Grass Catcher Assembly (18" Mower)
 No. 80-316 Grass Catcher Assembly (22" Mower)
 No. 80-110 Replacement Grass Bag (18" or 22" Mowers)
 No. 80-000 Two Replacement Blades (18" Mower)
 No. 80-001 Two Replacement Blades (22" Mower)
 No. U3319 Leaf Mulcher Attachment (18" Mower)
 No. U3320 Leaf Mulcher Attachment (22" Mower)
 No. U3323 Belt Set & Tensioner Kit (18" Mower)*
 No. U3324 Belt Set & Tensioner Kit (22" Mower)*
 No. U3312 Height Adjustment Kit (No. 8015 Mower)

EXTENSION CORDS: 16 gauge with tough vinyl insulation. Easily visible orange color. 3-wire round cable for tools requiring ground. 2-wire cable for all double-insulated tools. U.L. listed for outdoor use.

No. 88-050 50' 16/3 (three wire)
 No. 88-100 100' 16/3 (three wire)
 No. 88-052 50' 16/2 (two wire)
 No. 88-102 100' 16/2 (two wire)
 No. 89-000 Extension Cord Storage Reel (holds up to 150 ft. of SJT 16/3 cord)

No. U3305 or U3339 Cord Connectors
 No. U3306 Blade Sharpener

CAUTION: The above accessories are recommended for use with your mower. The use of any other accessory or attachment might be hazardous.

*Mower drive belts should not require adjustment during the first several seasons the mower is used. Either or both of the following conditions indicate the belts should be re-tensioned.

1. The mower having sharp blades no longer produces a clean cut with either one or both blades.
2. The motor runs at higher than normal speeds in thick grass.

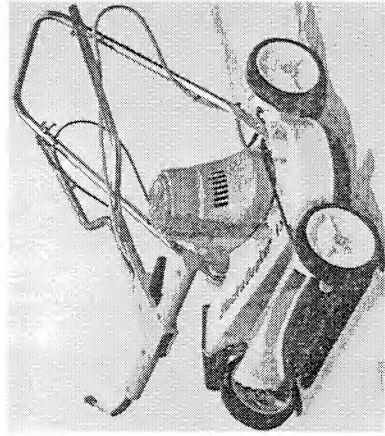


FIGURE 30

IMPORTANT

To assure product **SAFETY** and **RELIABILITY**, repairs, maintenance and adjustments (including brush inspection and replacement), should be performed by **BLACK & DECKER** Service Centers or other qualified service organizations, always using **Black & Decker** replacement parts. When servicing **Double-Insulated Tools**, it is extremely important that **ONLY IDENTICAL REPLACEMENT PARTS** BE USED.

HOME USE WARRANTY

(A FULL ONE YEAR WARRANTY)

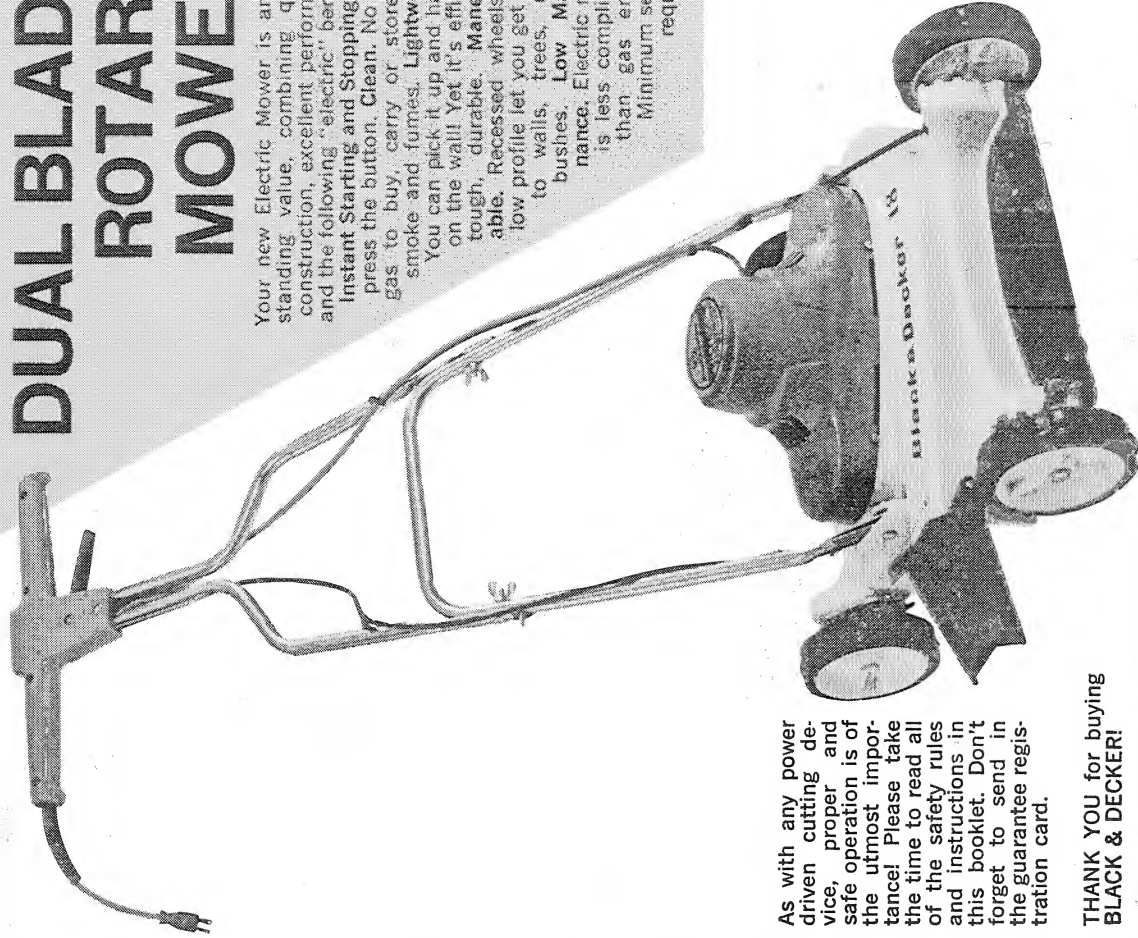
Black & Decker warrants this product for one year. We will repair, without charge, any defect due to faulty material or workmanship, or at our option, replace the product free. Please return the complete unit, transportation prepaid, to any **Black & Decker Service Center** or **Authorized Service Station** listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state. Should you have any questions, contact your nearest **Black & Decker Service Center Manager**.



Black & Decker®

DUAL BLADE ROTARY MOWER

Your new Electric Mower is an outstanding value, combining quality construction, excellent performance and the following "electric" benefits: **Instant Starting and Stopping.** Just press the button. **Clean.** No oil or gas to buy, carry or store. **No smoke and fumes.** **Lightweight.** You can pick it up and hang it on the wall! Yet it's efficient, tough, durable. **Maneuverable.** Recessed wheels and low profile let you get close to walls, trees, under bushes. **Low Maintenance.** Electric motor is less complicated than gas engine. **Minimum service required.**



As with any power driven cutting device, proper and safe operation is of the utmost importance! Please take the time to read all of the safety rules and instructions in this booklet. Don't forget to send in the guarantee registration card.

THANK YOU for buying
BLACK & DECKER!

OWNER'S MANUAL

LUBRICATION CONT'D

- (3) Position mower as in Figure 26 and put five (5) drops of motor oil in the reservoir. Do not over-lubricate.
- (4) Replace the motor cover so the printing on the label faces the same way as the "Black & Decker" cast into the deck. Carefully slide it down over the motor without forcing it. The lower motor bearing has been lubricated at the factory for the life of the bearing.

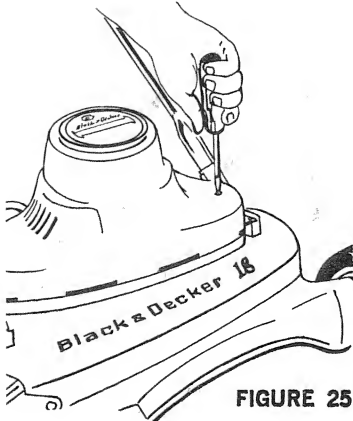


FIGURE 25

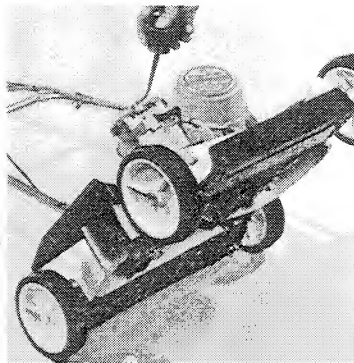


FIGURE 26

DRIVE BELT ADJUSTMENT

The drive belts have been tensioned properly at the factory and should not require adjustment during the first several seasons the mower is used.

Either or both of the following conditions indicate the belts should be re-tensioned.

1. The mower having sharp blades no longer produces a clean cut with either one or both blades.
2. The motor runs at higher than normal speeds in thick grass.
Note: Before attempting adjustment, be sure the blades are sharp since dull blades are most often the cause of poor cutting.

ADJUSTMENT:

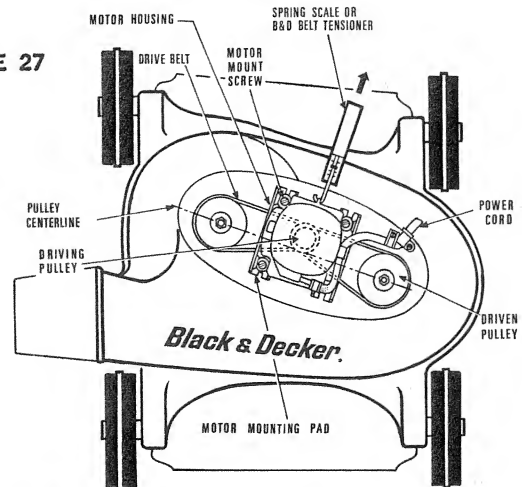
1. DISCONNECT THE POWER CORD PLUG FROM THE EXTENSION CORD.
2. Remove the motor cover by loosening the cover mounting screws and sliding it up off the motor. Be careful not to force it. This might damage the air baffles.
3. Loosen but do not remove the four (4) motor mounting screws so the motor is free to slide on the mounting pads.
4. The belts can be tensioned by using a spring scale or a B&D Tensioner.* If a spring scale is used a force of $11\frac{1}{2}$ lbs. should be used while tensioning the belts on 18" mowers. A force of 9 lbs. should be used on 22" mowers.
5. Place the hook of the scale under the large center rib at the lower motor air vent on the side away from the "Black & Decker" cast into the deck.
6. Pull on the scale in the direction shown, perpendicular to the center line of the driven pulleys.
7. While pulling the scale at the proper force (see 4 above), turn one of the driven pulleys through several revolutions to seat the belts properly. Then tighten two (2) of the motor mounting screws. Release the pull on the scale and tighten the other two (2) mounting screws.
8. Check by feel for equal tension in the belts and re-tension them if they are not tensioned alike.
9. CHECK TO BE SURE THE POWER CORD IS CLEAR OF THE BELTS AND PULLEYS. Replace the motor cover so the print-

DRIVE BELT ADJUSTMENT CONT'D

ing on the label faces the same way as the "Black & Decker" cast into the deck. **Be careful not to pinch the power cord.** Now tighten the cover mounting screws.

*The B&D Belt Tensioner is included with Replacement Belt Sets listed on back cover. Complete instructions are included.

FIGURE 27



CLEANING AND STORAGE

UNPLUG CORD! Use only mild soap and a damp cloth to clean the mower. Many household cleaners contain chemicals which could seriously damage the plastic. Also, do not use gasoline, turpentine, lacquer or paint thinner, dry cleaning fluids or similar products. Clean out any clippings which may have accumulated on the underside of the deck.

After several uses, check all exposed fasteners for tightness. Your mower should be stored in a dry place, and to save space it can be hung on a wall (Figure 28) as follows:

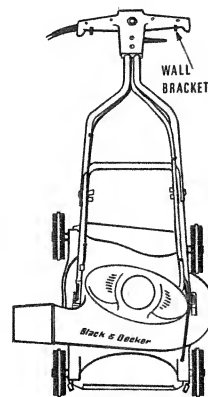


FIGURE 28

1. With handle in an upright position, unhook safety shield cable from slot in handle.
2. Squeeze the lower handle legs so that they clear the mounting brackets on the mower deck.
3. Lower the handle to a horizontal position, away from the grass discharge opening.
4. Mount brackets on the wall, spaced to fit under both sides of the handle grip. Keep mower deck and handle parallel and hang on brackets.

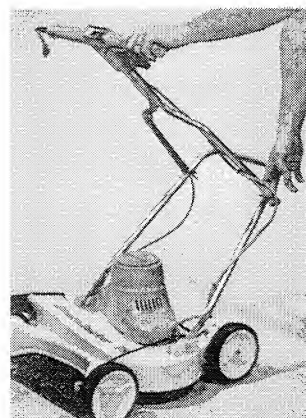


FIGURE 29

FOLDING MOWER HANDLE — Deluxe Mowers Only.

(Handle on No. 8016 Standard Mower is not designed to fold over.) Loosen wing nuts and fold upper part of handle toward front (toward discharge opening) of mower (Figure 29). **CAUTION: HOLD POWER CORD AWAY FROM PIVOT POINT WHEN FOLDING HANDLE TO PREVENT ANY POSSIBLE CORD PINCHING — SEE FIGURE 29.** Final folded position of handle is shown in Figure 30 on next page.

MOWING PROCEDURE CONT'D

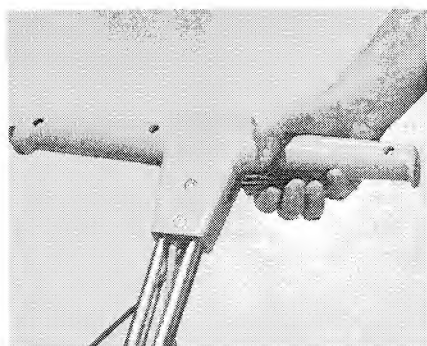


FIGURE 16

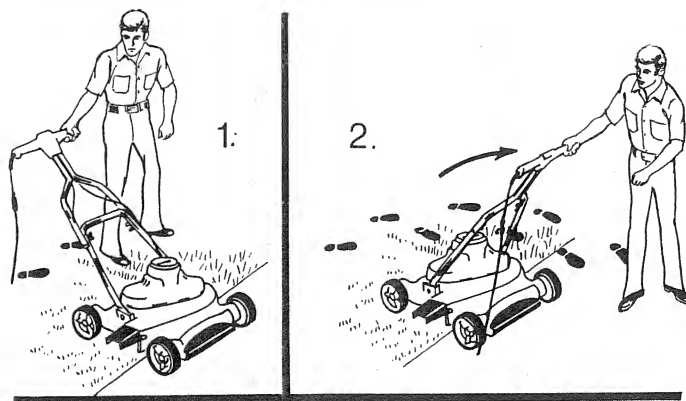


FIGURE 17



4. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always maintain good footing.
5. Turn mower "OFF" when crossing any gravelled area (stones can be thrown by the blade).
6. Set mower at highest cutting height when mowing in rough ground or in tall weeds.
7. From time to time stop the mower — UNPLUG CORD — turn mower on its side. Wipe out any accumulation of grass in the blade area. Be careful of the sharp edges of the blade. If a grass catcher is used during the fast growing season, the grass may tend to clog up at the discharge opening. Turn the switch "OFF" and disconnect the power cord plug. Remove the catcher and shake the grass down to the back END of the bag. Also clean out any grass or debris which may be packed around the discharge opening. Replace the grass catcher.
8. If moist grass causes frequent clogging, it will help to clear the clippings from under the deck if you increase the cutting height at the front (only) of the mower. The rear wheel setting will maintain the grass height you want.
9. If mower should start to vibrate abnormally, turn mower "OFF" and unplug power cord. Check immediately for cause. Vibration is a warning of trouble. Do not operate mower until a service check has been made.

10. ALWAYS TURN THE SWITCH OFF AND UNPLUG THE MOWER WHEN LEAVING IT UNATTENDED EVEN FOR A SHORT PERIOD OF TIME.
11. When you are finished mowing, unplug the extension cord at the electrical outlet before coiling it for storage.

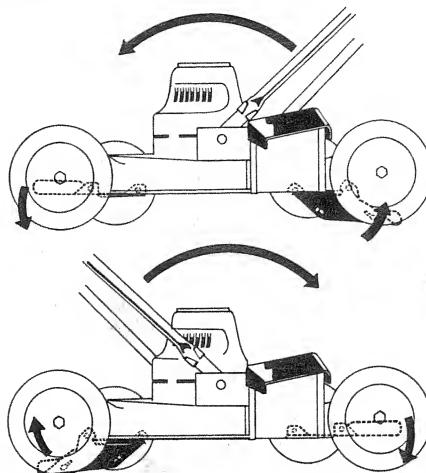


FIGURE 18

SAFETY SHIELDS

Two Safety Shields are mounted on the mower to reduce the danger from objects which might be thrown by the blade under the edge of the mower deck. The position of these shields is changed automatically by the position of the handle. When you are pushing the mower, the shield toward you is always DOWN, while the shield in front of the mower is UP (Figure 18). This action is controlled by the cable which you previously hooked into a slot in the handle (Figure 8B). Check frequently to see that the safety shields are operating properly, and if they are not, do not use the mower until repairs are made.

GUARD FOR DISCHARGE OPENING



FIGURE 19A

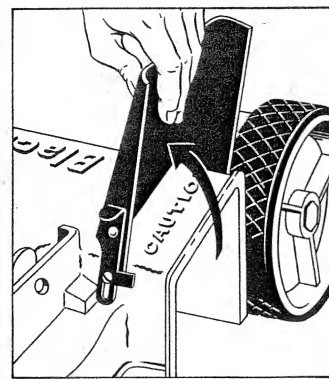


FIGURE 19B

The Guard has a latch which locks it in the DOWN position. To raise the Guard for attaching the Grass Catcher: (1) Turn Mower "OFF". (2) Pull the latch outward (Figure 19A). (3) Lift the Guard (Figure 19B).

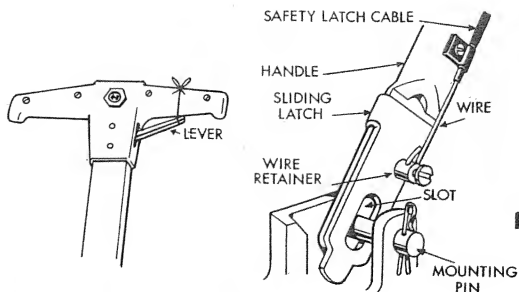


FIGURE 20

HANDLE SAFETY LATCH ADJUSTMENT

The handle safety latch has been adjusted at the factory. Readjust only if it does not release when the lever is pulled up. Also readjust if it does not prevent the handle from swinging over the mower when the lever is released.

To adjust the safety latch mechanism (See Figure 20):

1. DISCONNECT THE POWER CORD PLUG FROM THE EXTENSION CORD.
2. Loosen screw on the wire retainer and bend the end of the wire straight so it is free to slide through the retainer.
3. Squeeze the handle lever as tightly as possible and tie it in this position with a piece of string.
4. Push the sliding latch up the handle until the lower end of the slot touches the mounting pin. Hold the slider in this position and tighten the screw on the wire retainer so that it grips the wire tightly.
5. Remove string from lever. Safety latch will snap back to locking position.

BLADE SHARPENING

Keep blades sharp for best mower performance. Sharpening procedure is as follows:

1. UNPLUG MOWER!
2. Cut a piece of 2 X 4 wood (6" long for 18" Mower; 7" long for 22" Mower) to keep the blades from turning while removing blade nuts.
3. Position wood block and remove nuts as shown in Figures 21A and 21B. (If square blade spacer turns with nut, place a second wrench on spacer to keep shaft from turning).

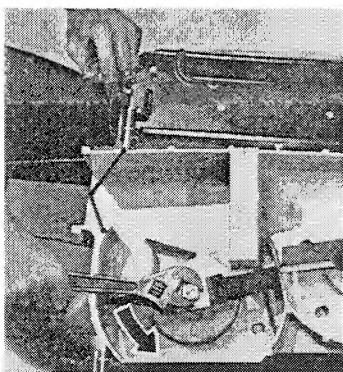


FIGURE 21A

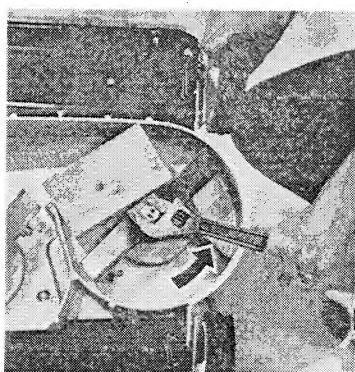


FIGURE 21B

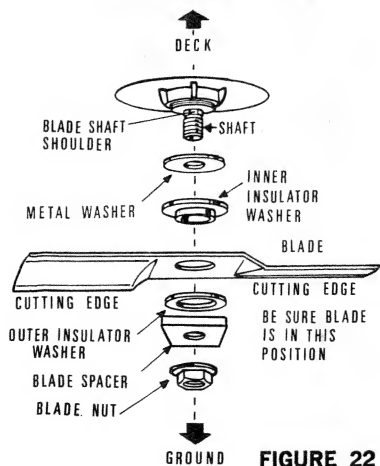


FIGURE 22

4. Remove blade spacers, outer insulation washers and blades (Figure 22).

5. The blade can be sharpened in several different ways as follows. Whichever way you use, try to maintain the original cutting angle, and sharpen each cutting edge an equal amount. Bent or damaged blades should be replaced (see "Accessories").

BLADE SHARPENING CONT'D

USING HAND SHARPENING STONE — Being careful not to cut yourself, sharpen both beveled edges of each blade.

B&D No. 3306 BLADE SHARPENER — Wear safety glasses! Use a vise to hold the blade in a convenient position and mount the sharpener in a $\frac{1}{4}$ " or $\frac{3}{8}$ " electric drill. Start the drill and, with the sharpener's plastic disc against the flat side of the blade, move the groove in the sharpener lightly back and forth along the beveled cutting edge (Figure 23).

OTHER SHARPENING METHODS — Wear safety glasses! With the blade removed from the tool, it can also be sharpened on a bench grinder, or, when held in a vise, with a fine-tooth file or power disc sander.

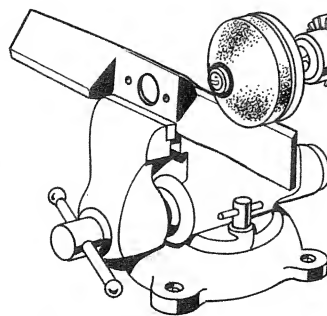


FIGURE 23

6. When replacing sharpened blade on shoulder of inner insulating washer, make sure cutting edges of the blade are closest to ground. Place outer insulating washer over shoulder of the inner washer, sandwiching blade in between. Now place blade spacer and the blade nut on the shaft. Position wood block to keep shaft from turning and then securely tighten blade nuts as shown in Figures 24A and 24B. (If square blade spacer turns with nut, place a second wrench on spacer to keep shaft from turning).

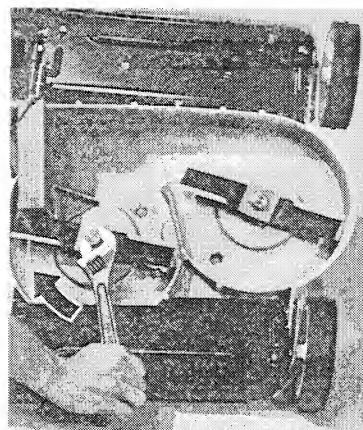


FIGURE 24A

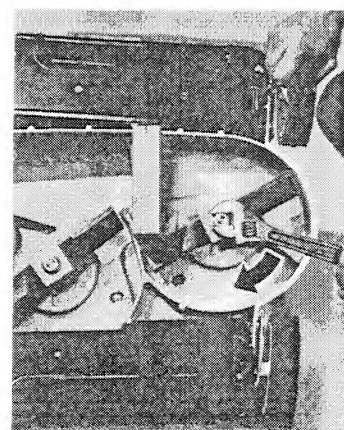


FIGURE 24B

LUBRICATION

HANDLE: At beginning of mowing season, and during season as required, place several drops of motor oil —

- (1) At bottom of handle where it pivots on its mounting pins.
- (2) On sliding safety latch at bottom of handle.
- (3) On safety latch wire where it extends from its jacket.

DO NOT OIL THE WHEELS. They have molded bearings which require no lubrication.

BEARINGS:

All of the bearings in the 22" Mower have been lubricated at the factory for the life of the bearings and should not be oiled.

18" MOWERS ONLY — At end of mowing season, lubricate the upper motor bearing only as follows:

- (1) UNPLUG MOWER!
- (2) Remove the motor cover by loosening the two (2) mounting screws (Figure 25) and sliding it up off the motor housing. Be careful not to force it. This might damage the air baffles.

ADDITIONAL LAWN MOWER SAFETY RULES

Training: 1. Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. 2. Never allow children to operate a power mower. 3. Keep the area of operation clear of all persons, particularly small children, and pets.

Preparation: 1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wires, bones, and other foreign objects. 2. Do not operate the equipment when barefoot or wearing open sandals. Always wear substantial footwear. 3. Never attempt to make a wheel height adjustment while the motor is running. 4. Mow only in daylight or in good artificial light. 5. Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run.

Operation: 1. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times. 2. Stop the blades when crossing gravel drives, walks, or roads. 3. After striking a foreign object, stop the motor, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. 4. If the equipment should start to vibrate abnormally, stop the motor and check immediately for the cause. Vibration is generally a warning of trouble. 5. Stop the motor whenever you leave the equipment, before cleaning the mower housing, and when making any repairs or inspections. 6. When cleaning, repairing, or inspecting, make certain the blade and all moving parts have stopped. 7. Shut the motor off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging chute. 8. Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. 9. Always disconnect electric mowers before cleaning, repairing, or adjusting. 10. Never operate the mower without proper guards, plates, or other safety protective devices in place.

Maintenance and Storage: 1. Check the blade at frequent intervals for proper tightness. 2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition. 3. Check the grass catcher bag frequently for wear or deterioration. Replace with new bags for safety protection.

DOUBLE INSULATION

Your Mower is DOUBLE-INSULATED to give you added safety. This means that it is constructed throughout with TWO separate "layers" of electrical insulation or one DOUBLE thickness of insulation between you and the tool's electrical system.

Tools built with this insulation system are not intended to be grounded. As a result, your mower is equipped with a two-prong plug which permits you to use extension cords without concern for maintaining a ground connection.

NOTE: DOUBLE-INSULATION does not take the place of normal safety precautions when operating this mower. The insulation system is for added protection against injury resulting from a possible electrical insulation failure within the tool.

CAUTION: When servicing Double Insulated Tools, use ONLY IDENTICAL REPLACEMENT PARTS. Replace or repair damaged cords.

EXTENSION CORD

Use only U.L. listed "outdoor" extension cords.

To prevent loss of power and overheating, the size of the wires in an extension cord must be of adequate size. Use the table below to determine minimum wire size required.

Extension Cord Length	Up to 100 Ft.	100 Ft. to 200 Ft.
Minimum } 120 Volt Tools	16	14
Wire Size* } 220 Volt Tools	16	16

*American Wire Gauge

NOTE: The lower the wire size number, the heavier the wire, and the farther it will carry current without a significant voltage drop.

EXTENSION CORD CONT'D

Before using any extension cord, inspect it, and the short mower power cord, for loose or exposed wires and damaged insulation. Make any needed repairs or replacement before using your mower. If you cut or damage the extension cord, unplug it at the electrical outlet before moving the mower or examining the damage. If there is damage to the extension cord, make any needed repairs before using it.

NOTE: Your mower is a major appliance and should not be operated simultaneously with other major appliances on the same household circuit.

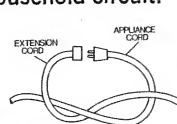
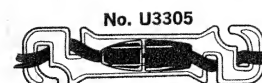


FIGURE 13



No. U3305

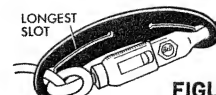


FIGURE 14

To prevent disconnection of mower cord from extension cord when mowing, (1) make a knot as shown in Figure 13, or (2) use one of the Cord Connectors shown in Figure 14.

SWITCH

A rocker-type switch button located on the upper handle turns the mower "ON" and "OFF." Always be sure that this button is in the "OFF" position before plugging extension cord into the power supply receptacle.

MOWING PROCEDURE

1. Inspect area where mower is to be used and remove all stones, sticks and other debris which might be thrown by the rotating blade.
2. Place most of the extension cord close to the electrical outlet, out of the path of the mower. **CAUTION:** Do not plug extension cord into receptacle outlet while standing in water or when hands are wet.
3. Begin mowing in the area closest to the outlet and mow in a back and forth manner (Figure 15). When you reach the edge of the lawn, do not turn the mower around. Instead, pull the safety latch lever up (Figure 16) and move the handle up and over the mower, as you walk around the side of the mower opposite the discharge opening. After the latch is engaged, you can now push the mower in the opposite direction (Figure 17).

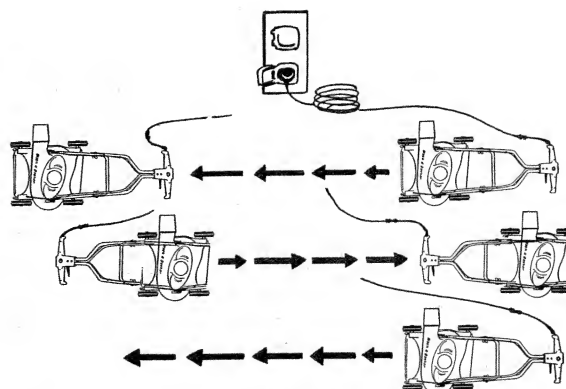


FIGURE 15

ASSEMBLY CONT'D

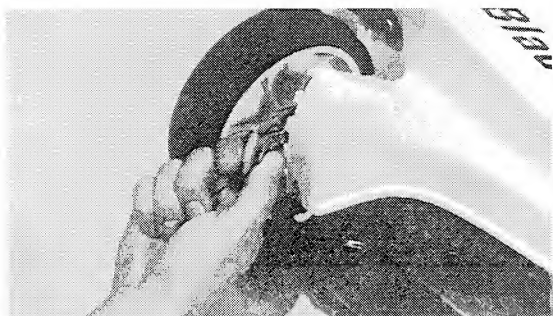


FIGURE 9A

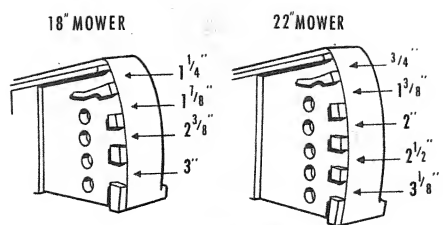


FIGURE 9B

- (7) **DELUXE MOWERS ONLY** — Adjust wheels for cutting height by squeezing together the two ends of the adjusting lever and placing it in the proper slot for cutting height desired (Figures 9A and 9B).

WHEEL ADJUSTMENT (NO. 8015 MOWER ONLY)

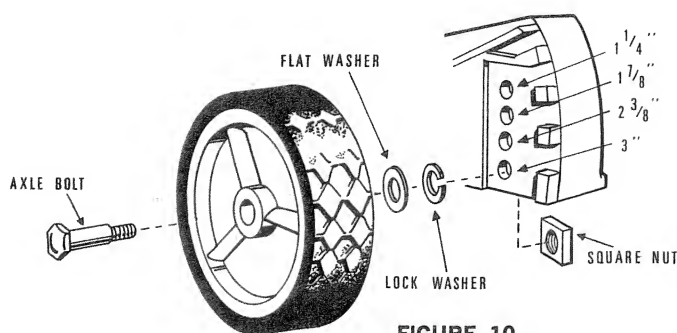


FIGURE 10

- (1) To change the cutting height on the No. 8015 Mower, first remove any one of the wheel axle bolts (Figure 10).
- (2) Select the cutting height which you want to use on your lawn and note which wheel mounting hole will give you this height (Figure 10).
- (3) Push axle bolt through wheel and put first the flat washer, then the lockwasher on the bolt threads.
- (4) Hold square nut behind selected hole and between the two ribs which keep it from turning when axle bolt is tightened. Screw bolt into nut finger tight. Then tighten bolt firmly with a wrench.
- (5) Repeat for other 3 wheels, making sure that all wheels are at the same height position.

SAFETY RULES FOR ELECTRIC LAWN & GARDEN TOOLS

1. **AVOID DANGEROUS ENVIRONMENT** — Don't use tools in damp or wet locations.
2. **KEEP CHILDREN AWAY** — All visitors should be kept a safe distance from work area.
3. **STORE IDLE TOOLS INDOORS** — When not in use, tools should be stored indoors in dry, high or locked-up place — out of reach of children.
4. **DON'T FORCE TOOL** — It will do the job better and safer at the rate for which it was designed.
5. **USE RIGHT TOOL** — Do not use tool for any job except that for which it is intended.
6. **DRESS PROPERLY** — Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of rubber gloves and footwear is recommended when working outdoors.
7. **DON'T ABUSE CORD** — Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
8. **WARNING** — To prevent shock hazard use only with an extension cord suitable for outdoor use.
9. **DON'T USE TOOL IN RAIN.**
10. **DON'T OVERREACH** — Keep proper footing and balance at all times.
11. **MAINTAIN TOOLS WITH CARE** — Keep cutting edges sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
12. **DISCONNECT TOOL** — Disconnect the tool from the power supply when not in use, before servicing, when changing accessories such as blades, etc.
13. **AVOID ACCIDENTAL STARTING** — Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
14. **EXTENSION CORDS** — To prevent disconnection of tool cord from the extension cord during operation:
 - (1) Make a knot as shown in Figure 13, or
 - (2) Use one of the plug-receptacle Cord Connectors shown in Figure 14.
15. **KEEP GUARDS IN PLACE** and in working order.
16. **KEEP BLADES SHARP.**
17. **KEEP HANDS AND FEET** away from cutting area.
18. **OBJECTS STRUCK BY THE LAWN MOWER BLADE** can cause severe injuries to persons. The lawn should always be carefully examined and cleared of all objects prior to each mowing.
19. **IF MOWER STRIKES A FOREIGN OBJECT** follow these steps: (a) Stop mower, (b) Unplug power cord, (c) Inspect for damage, (d) Repair any damage before restarting and operating the mower.
20. **USE IDENTICAL REPLACEMENT BLADES ONLY.**
21. **DO NOT OPERATE** electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

ASSEMBLY CONT'D

- (3) Attach handle to mower deck with 2 mounting pins "M" (Figure 5) and 2 spring clips "N". Pins and clips are item "B" in Figure 1.

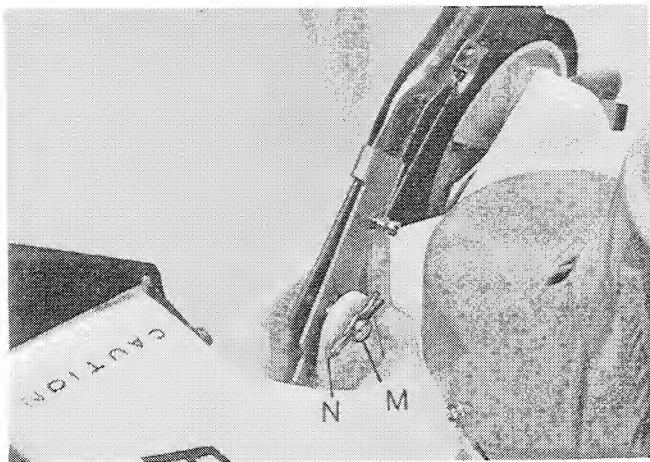


FIGURE 5

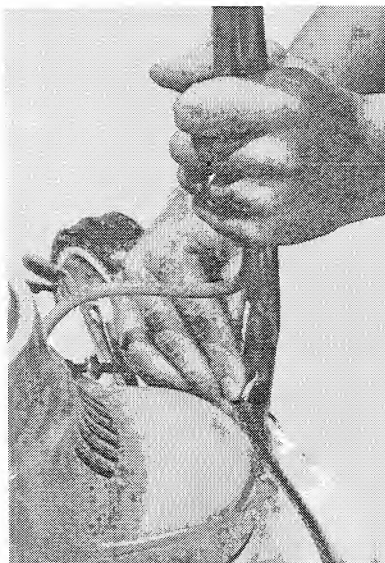


FIGURE 8A

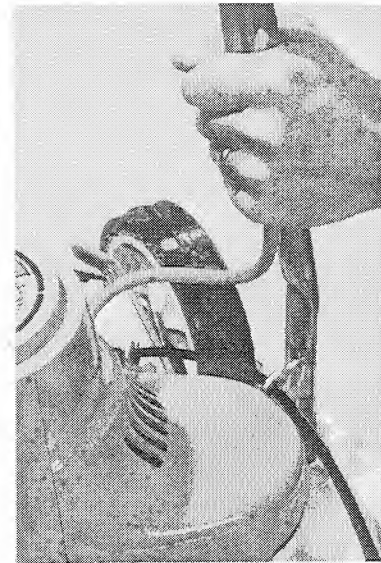


FIGURE 8B



FIGURE 6

- (4) Three plastic straps are used to hold the power cord and the safety latch cable close to the handle at locations indicated by arrows in Figure 6. To attach, push the larger of the two pegs on the straps into the hole in handle tube (Figure 7A). Push the strap around the cord and snap the smaller peg into the hole in the larger peg (Figure 7B).

- (5) Grasp lower handle tubes and lift mower out of carton.

- (6) Swing the handle to a vertical position and insert the "S"-Hook on the safety shield cable into the slot near the bottom of handle (Figures 8A and 8B).

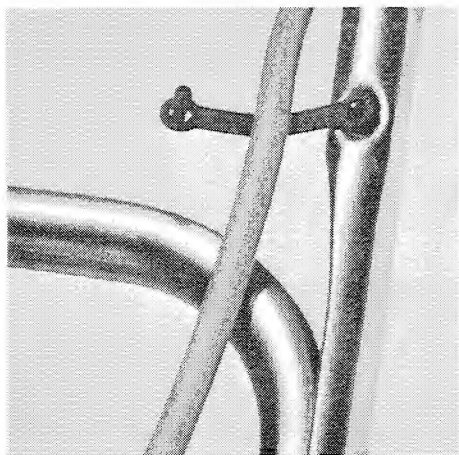


FIGURE 7A

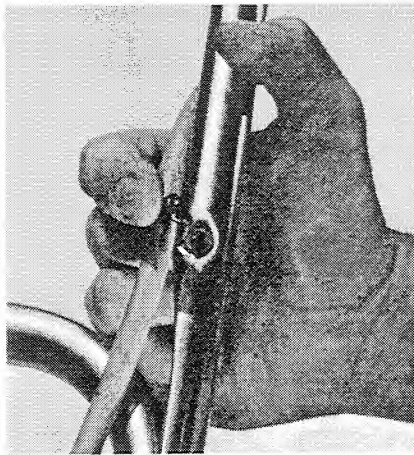


FIGURE 7B

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ASSEMBLY

- (1) Open carton and remove cardboard fillers and 2 plastic hardware bags (contents shown in Figure 1).

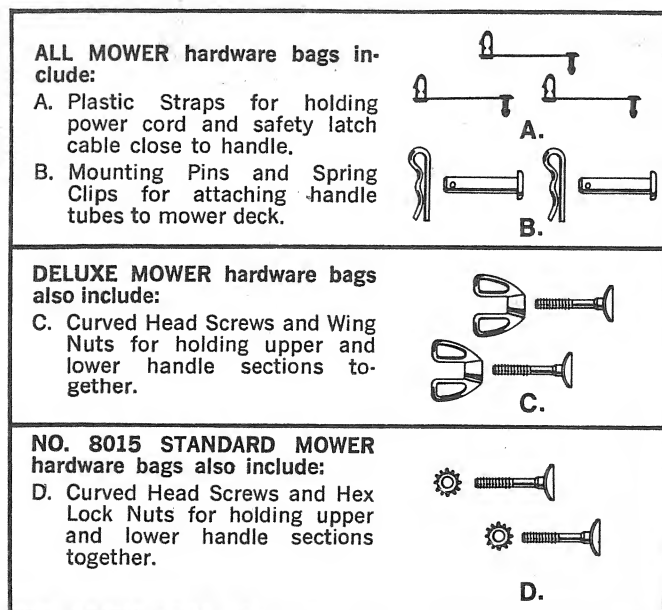


FIGURE 1

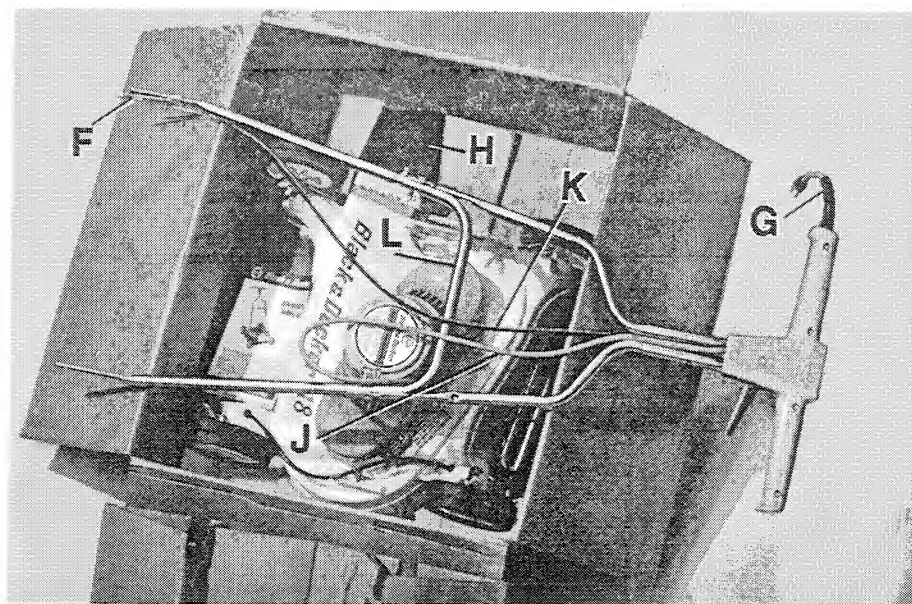


FIGURE 2

ASSEMBLY CONT'D

- (2) Without removing mower from carton, fasten upper and lower handle sections together as shown in Figures 2 & 3, with curved head bolts and wing nuts (Item "C", Figure 1). No. 8015 MOWER ONLY — Use curved head bolts & hex nuts (Item "D", Figure 1) for handle assembly (Figure 4). This handle is not designed to fold for storage.

See "IMPORTANT" note below before assembling handle sections.

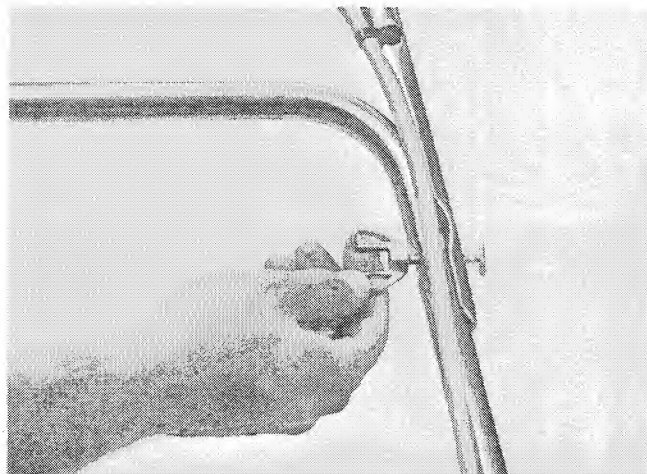


FIGURE 3

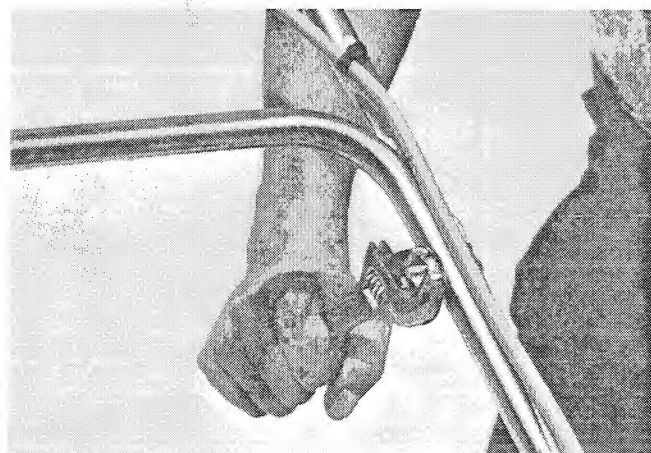


FIGURE 4

IMPORTANT

Handle must be assembled so that the sliding safety-latch "F" (Figure 2), and the power cord plug "G" are on the same side as the grass discharge opening "H". Place power cord "J" and safety latch cable "K" OVER handle cross-member "L".